

Power PCB Relay Card E

- 1 pole 8 A, 1 CO or 1 NO contact
- 4 kV coil-contact
- Vertical and horizontal version
- Version with bifurcated contacts
- Wash tight
- RoHS compliant (Directive 2002/95/EC)
as per product date code 0426

Applications

I/O modules, heating control, timers



F0151-B

Approvals

VDE REG.-Nr. 5146, cULus E214024
Technical data of approved types on request

Contact data

Contact configuration	1CO or 1NO		
Contact set	single cont.	single cont.	twin contact
Type of interruption	micro disconnection		
Rated current	8 A	5 A	5 A
Rated voltage / max.switching voltage AC	240/400 VAC		
Maximum breaking capacity AC	2000 VA	1250 VA	1250 VA
Limiting making capacity, max 4 s, duty factor 10%	15 A		
Contact material	AgCdO; AgNi20	AgNi0,15	AgNi0,15
Mechanical endurance	20x10 ⁶ cycles		
Rated frequency of operation with / without load	6 / 1200 min ⁻¹		

Contact ratings

Type	Load	Cycles
-A102	4 A, 30 VDC, resistive	2x10 ⁶
-A102	1 A, 24 VDC, inductive L/R=40ms	2x10 ⁵
-A402	1 A, 230 VAC, cosφ=0.4	5x10 ⁵

Coil data

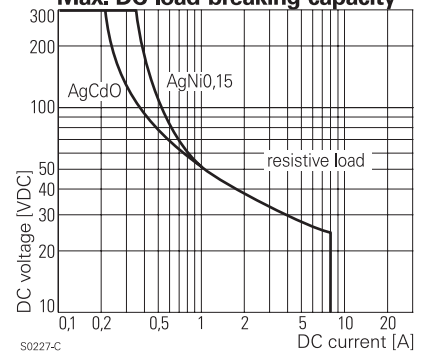
Rated coil voltage range DC coil	6...60 VDC
Coil power DC coil	450...500 mW

Coil versions, DC-coil

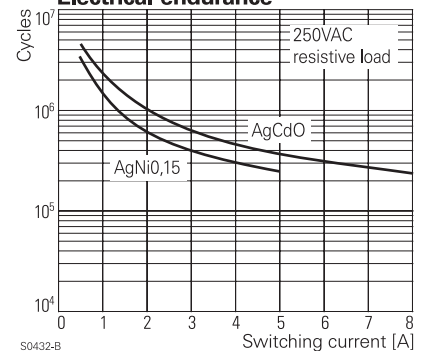
Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ohm	Rated coil power mW
001	6	4.0	0.6	80±10%	450
002	12	8.0	1.2	330±10%	436
006	24	16.0	2.4	1200±15%	480
013	48	32.0	4.8	4700±15%	490
023	60	40.0	6.0	7200±15%	500

All figures are given for coil without preenergization, at ambient temperature +23°C
Other coil voltages on request

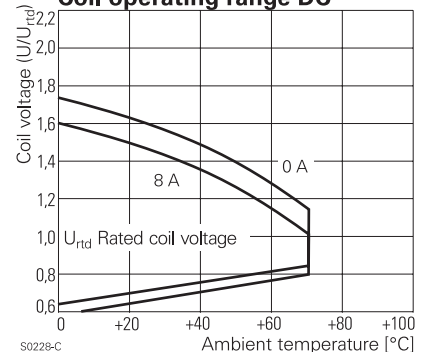
Max. DC load breaking capacity



Electrical endurance



Coil operating range DC



Power PCB Relay Card E (Continued)

Insulation

Dielectric strength coil-contact circuit	4000 V _{rms}
open contact circuit	1000 V _{rms}
Clearance / creepage coil-contact circuit	≥ 4 / 4 mm
Material group of insulation parts	IIIa
Tracking index of relay base	PTI 225
Insulation to IEC 60664-1	
Type of insulation coil-contact circuit	basic
open contact circuit	functional
Rated insulation voltage	250 V
Pollution degree	3
Rated voltage system	230 V
Overvoltage category	III

Other data

RoHS - Directive 2002/95/EC	compliant as per product date code 0426
Flammability class according to UL94	V-0
Ambient temperature range	-40...+70°C
Operate- / release time	typ. 7 / 3 ms
Bounce time NO / NC contact	typ. 0,5 / 3 ms
Category of protection	RTIII-wash tight
Mounting	pcb
Mounting distance	5 mm
Resistance to soldering heat	260°C / 5 s
Relay weight	14 g
Packaging unit	20 / 400 pcs

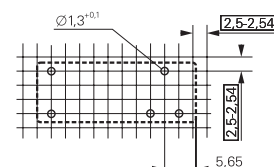
Accessories

For details see datasheet Accessories Card E

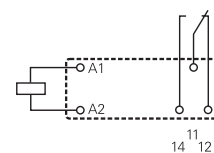
PCB layout / terminal assignment

Bottom view on solder pins

Vertical version

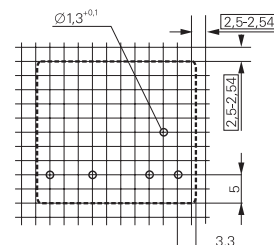


S0257-AH

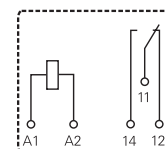


S0257-AB

Horizontal version



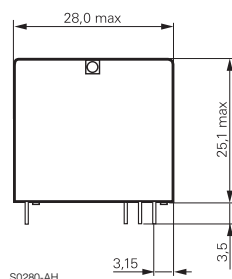
S0257-AI



S0257-AE

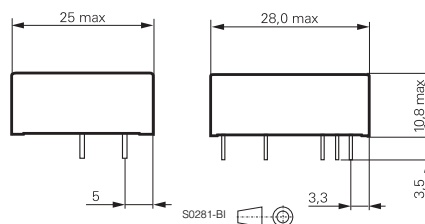
Dimensions

Vertical version



S0280-AH

Horizontal version



S0281-BI

Power PCB Relay Card E (Continued)

Product key

V 2 3 0 5 7						-	0							
Type														
Version														
A horizontal							B vertical							
Version														
0 standard														
Coil														
001 6 VDC					013 48 VDC									
002 12 VDC					023 60 VDC									
006 24 VDC														
Contact set														
A single contact							B bifurcated contact (CO version only)							
Contact material														
1 AgNi 0.15					4 AgCdO									
2 AgNi 20														
Contact configuration														
01 1 CO contact							02 1 NO contact							
Other types on request														

Product key	Version	Cont.type	Cont.material	Cont.config.	Coil	Part number
V23057-A0002-A101	horizontal	single contact	AgNi 0.15	1 CO contact	12 VDC	0-1393215-4
V23057-A0002-A401			AgCdO			0-1393215-9
V23057-A0006-A101			AgNi 0.15	1 NO cont.	24 VDC	2-1393215-1
V23057-A0006-A401			AgCdO			2-1393215-5
V23057-A0006-A402			AgNi 0.15	1 CO contact	48 VDC	2-1393215-7
V23057-A0013-A101			AgCdO			3-1393215-8
V23057-A0013-A401			AgNi 0.15	1 CO contact	60 VDC	4-1393215-0
V23057-A0023-A101			AgCdO			5-1393215-5
V23057-A0023-A401			AgCdO	1 NO cont.	12 VDC	5-1393215-6
V23057-B0002-A101			AgNi 0.15			6-1393215-7
V23057-B0002-A401	vertical	single contact	AgCdO	1 NO cont.	24 VDC	7-1393215-1
V23057-B0002-A402			AgNi 0.15			7-1393215-2
V23057-B0006-A101			AgNi 0.15	1 CO cont.	24 VDC	7-1393215-5
V23057-B0006-A102			AgCdO			7-1393215-9
V23057-B0006-A401			AgCdO	1 CO cont.	24 VDC	8-1393215-5
V23057-B0006-A402			AgNi 0.15			8-1393215-6
V23057-B0013-A101			AgCdO	1 NO cont.	48 VDC	8-1393215-4
V23057-B0013-A401			AgCdO			9-1393215-6
V23057-B0023-A401			AgCdO	1 NO cont.	60 VDC	0-1393216-6